

GIOVANNI PICA



Dynamic Ph.D. candidate in chemical science and industrial innovation. 4 years of experience in the renewable energy sector, with a special focus on emerging solar nanotechnologies. Passionated in innovation and in the industrial engineering of sustainable energy solutions.

Work experience

PhD in Chemical Science & industrial innovation oct 2021 – due on sep 2024

University of Pavia (Italy) @ Grancini's Lab (<https://pvsquared2.unipv.it/>)

Mission: Design of novel pathways and engineering of perovskite material properties to boost the performances and stability of emerging photovoltaic technologies.

Outcome: 10+ publications on high impact peer reviewed journals.

International internship visiting scientist sep 2023 – dec 2023

King Abdullah University of Science and Technology - KAUST (Saudi Arabia)

International internship visiting scientist apr 2023 – may 2023

Ecole Polytechnique Fédérale de Lausanne – EPFL (Switzerland)

Research fellowship apr 2020 – oct 2021

University of Pavia (Italy) @ Grancini's Lab

Mission: Design of an innovative time-resolved electro-optical spectroscopic system for the characterization of solar cells.

Outcome: System development and publication of the relative proof of concept.

Education

M. Sc. cum laude in Physics oct 2017 – apr 2020

University of Pavia (Italy)

Academic skills

Scientific know-how in the design, development and assembling of optoelectronic systems for the characterization of photovoltaic devices and in fabricating high efficiency perovskite solar cells on laboratory scale.

Proficient at integrating technical insights with economic and regulatory frameworks to cooperate with non-technical collaborators and to optimize project outcomes.

Project management experience

Skilled in conducting analyses of project feasibility, resource allocation, cost-benefit assessments, and risk mitigation strategies within the context of renewable energies and sustainable practices.

Management of RL 3776 Project funded by Regione Lombardia (1.5M€) on new infrastructures to promote sustainable territorial development and energy efficiency enhancement.

Management of procurement process for research equipments, including coordination of orders, vendor communication, negotiation of terms, tracking of deliveries, and ensuring adherence to budgetary constraints and project timelines.

Supervision of laboratory activities for three master's students, overseeing adherence to safety protocols, regulatory requirements, documentation procedures and project demands.

Consultancy

Management of Reorganization and Development Plan of San Matteo Polyclinic, for the definition of strategic transformation lines of the hospital, in accordance with the main principles of adaptability, innovation and sustainability.

Outcome: Publication of the related techno-economic report submitted.

Digital skills

Expert in data analysis (Origin), MS Office applications (Word, Excel, PowerPoint) and programming languages (Python, MatLab, LabVIEW).

Personal details

Name
Giovanni Pica

Address
Via Zandonai 10/D, Pieve Emanuele,
Milan (Italy)

Phone number
+39 3484451495

Email address
giovanni.pica01@gmail.com

LinkedIn
linkedin.com/in/giovanni-pica

Profile keywords

Renewable energy, photovoltaics,
technical know-how about research
equipments, industrial process
engineering, analytical mindset,
problem-solving, economic
assessment.

Proficient in English, Spanish

References

Prof. Giulia Grancini
University of Pavia (Italy)
giulia.grancini@unipv.it

Prof. Frederic Laquai
King Abdullah University of Science and
Technology (Saudi Arabia)
frederic.laquai@kaust.edu.sa